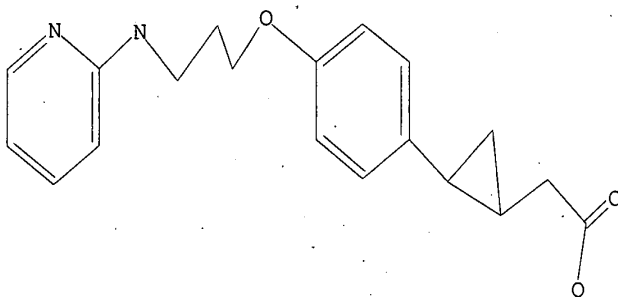


Narrow  
search

09/882,186

Page 3



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:55:33 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 2 TO 124  
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 15:55:45 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 46 TO ITERATE

100.0% PROCESSED 46 ITERATIONS 38 ANSWERS  
SEARCH TIME: 00.00.01

L3 38 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
140.28	140.49

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:55:52 ON 11 SEP 2002  
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FILE COVERS 1907 - 11 Sep 2002 VOL 137 ISS 11  
FILE LAST UPDATED: 10 Sep 2002 (20020910/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l3

L4 1 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:923768 CAPLUS

DOCUMENT NUMBER: 136:53681

TITLE: Preparation of cycloalkylalkanoic acids as integrin receptor antagonists

INVENTOR(S): Khanna, Ish Kumar; Clare, Michael; Gasiecki, Alan F.; Rogers, Thomas; Chen, Barbara; Russell, Mark; Lu, Hwang-Fun

PATENT ASSIGNEE(S): Pharmacia Corporation, USA

SOURCE: PCT Int. Appl., 171 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001096307	A2	20011220	WO 2001-US19104	20010615
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2002077321	A1	20020620	US 2001-882186	20010615
PRIORITY APPLN. INFO.:			US 2000-211781P	P 20000615
OTHER SOURCE(S):	MARPAT	136:53681		
GI				

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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The prepn. of compds. [I; A = heteroaryl (e.g., pyridine, imidazole, thiazole, oxazole, benzimidazole, imidazopyridine, etc.); n = 0-2, etc.; R1 = H, alkyl, etc.; R2, R3, R4, R5 = alkyl, alkoxy, etc.], their pharmaceutically acceptable salts and compns., and methods of selectively inhibiting or antagonizing the .alpha..nu..beta.3 and/or .alpha..nu..beta.5 integrin, are described. Thus, a multi-step synthesis of the trifluoroacetate salt of

2-[4-[3-(2-pyridinylamino)propoxy]phenyl]cyclopropaneacetic acid (II) is given. Administration of I inhibits angiogenesis, tumor metastasis, tumor growth, osteoporosis, Paget's disease, humoral hypercalcemia of malignancy, retinopathy, macular degeneration, arthritis, periodontal disease, smooth muscle cell migration, including restenosis and atherosclerosis, and viral diseases.

IT 381225-73-6P 381225-79-2P 381225-82-7P  
381225-83-8P 381225-84-9P, [2-[2-Methoxy-4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381225-85-0P  
381225-86-1P 381225-87-2P 381225-88-3P  
381225-89-4P 381225-90-7P, [2-[2-Fluoro-4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381225-91-8P  
381225-97-4P 381225-98-5P 381226-06-8P,  
[2-[2-Acetoxy-4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-07-9P, [1-Methoxymethyl-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-08-0P,  
[1-[(Methylsulfonyl)methyl]-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-09-1P,

[1-Pyridin-3-yl-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-10-4P, [1-Benzo[1,3]dioxol-5-yl-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-11-5P,  
[1-(2,3-Dihydrobenzofuran-6-yl)-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-12-6P,

[1-[Isoxazol-3-yl]-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-13-7P, [1-[Isoxazol-5-yl]-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-14-8P,

[1-[Oxazol-5-yl]-2-[4-[3-(pyridin-2-ylamino)propoxy]phenyl]cyclopropyl]acetic acid 381226-15-9P, [2-[4-[3-(Pyridin-2-ylamino)propoxy]phenyl]-1-[thiazol-5-yl]cyclopropyl]acetic acid 381226-90-0P 381226-92-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of cycloalkyl alkanolic acids as integrin receptor antagonists)

RN 381225-73-6 CAPLUS

CN Cyclopropaneacetic acid, 2-[4-[3-(2-pyridinylamino)propoxy]phenyl]-, (1R,2S)-rel-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

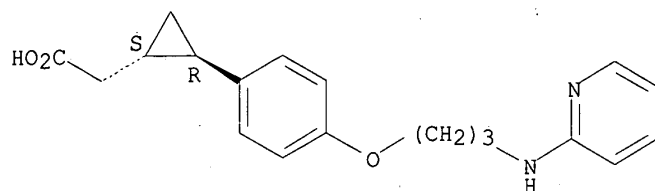
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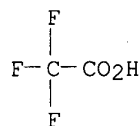
CRN 381225-72-5  
CMF C19 H22 N2 O3

Relative stereochemistry.



CM 2

CRN 76-05-1  
CMF C2 H F3 O2

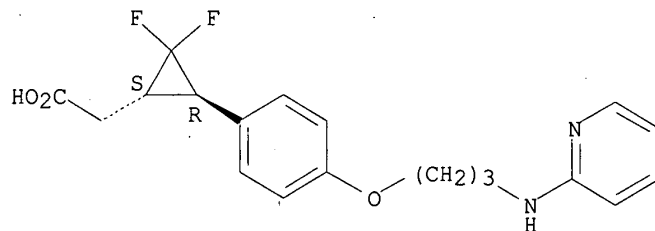


RN 381225-79-2 CAPLUS  
CN Cyclopropaneacetic acid, 2,2-difluoro-3-[4-[3-(2-pyridinylamino)propoxy]phenyl]-, (1R,3S)-rel-, mono(trifluoroacetate)  
(9CI) (CA INDEX NAME)

CM 1

CRN 381225-78-1  
CMF C19 H20 F2 N2 O3

Relative stereochemistry.

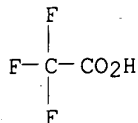


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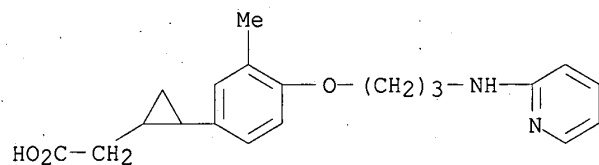
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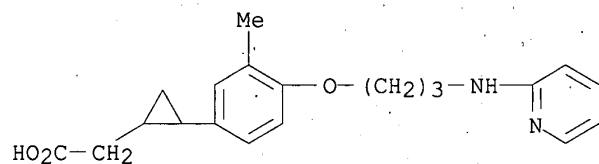
RN 381225-82-7 CAPLUS  
CN Cyclopropaneacetic acid,  
2-[3-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl  
]- (9CI) (CA INDEX NAME)



RN 381225-83-8 CAPLUS  
CN Cyclopropaneacetic acid,  
2-[3-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl  
]-, trifluoroacetate (4:5) (9CI) (CA INDEX NAME)

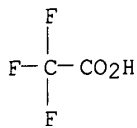
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CRN 381225-82-7  
CMF C20 H24 N2 O3



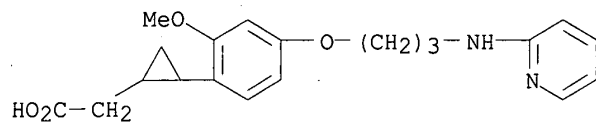
CM 2

CRN 76-05-1  
CMF C2 H F3 O2



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CN Cyclopropaneacetic acid, 2-[2-methoxy-4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



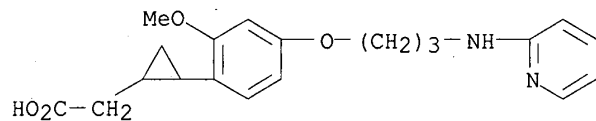
RN 381225-85-0 CAPLUS

CN Cyclopropaneacetic acid, 2-[2-methoxy-4-[3-(2-pyridinylamino)propoxy]phenyl]-, trifluoroacetate (10:9) (9CI) (CA INDEX NAME)

CM 1

CRN 381225-84-9

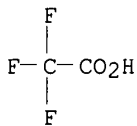
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CM 2

CRN 76-05-1

CMF C2 H F3 O2

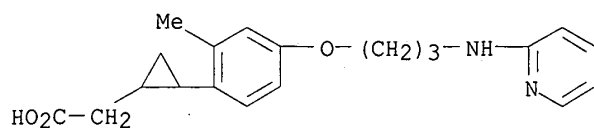


RN 381225-86-1 CAPLUS

CN Cyclopropaneacetic acid, 2-[2-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)

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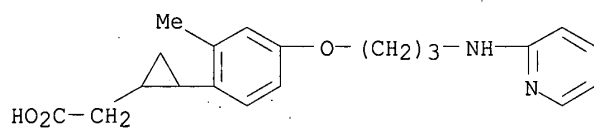
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RN 381225-87-2 CAPLUS  
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 2-[2-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl  
 ]-, trifluoroacetate (4:5) (9CI) (CA INDEX NAME)

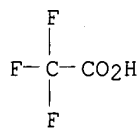
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CRN 381225-86-1  
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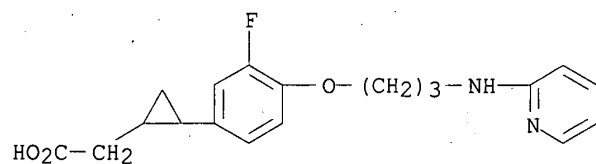


CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 381225-88-3 CAPLUS  
 CN Cyclopropaneacetic acid,  
 2-[3-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl  
 ]- (9CI) (CA INDEX NAME)



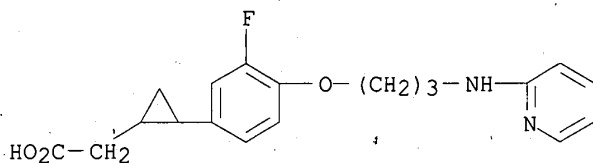
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RN 381225-89-4 CAPLUS  
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 2-[3-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl  
 ]-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

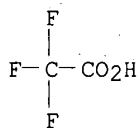
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CRN 381225-88-3  
 CMF C19 H21 F N2 O3

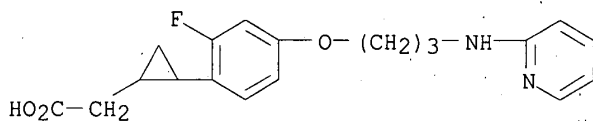


CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 381225-90-7 CAPLUS  
 CN Cyclopropaneacetic acid,  
 2-[2-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl  
 ]-, trifluoroacetate (4:7) (9CI) (CA INDEX NAME)



RN 381225-91-8 CAPLUS  
 CN Cyclopropaneacetic acid,  
 2-[2-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl  
 ]-, trifluoroacetate (4:7) (9CI) (CA INDEX NAME)

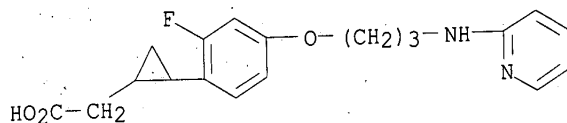
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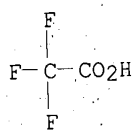
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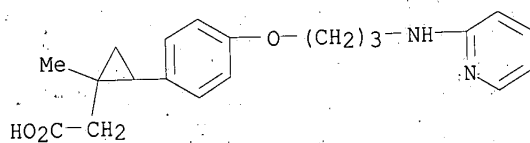


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CRN 76-05-1  
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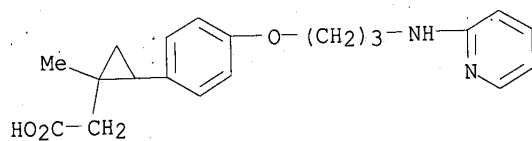
RN 381225-97-4 CAPLUS  
CN Cyclopropaneacetic acid,  
1-methyl-2-[4-[3-(2-pyridinylamino)propoxy]phenyl-  
1- (9CI) (CA INDEX NAME)



RN 381225-98-5 CAPLUS  
CN Cyclopropaneacetic acid,  
1-methyl-2-[4-[3-(2-pyridinylamino)propoxy]phenyl  
1-, trifluoroacetate (20:33) (9CI) (CA INDEX NAME)

CM 1

CRN 381225-97-4  
CMF C20 H24 N2 O3



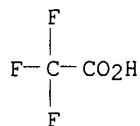
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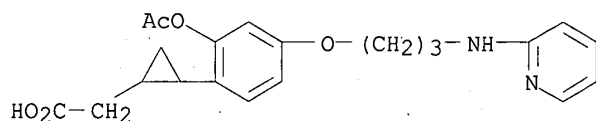
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CMF C2 H F3 O2



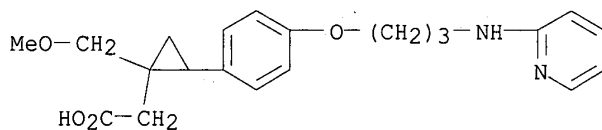
RN 381226-06-8 CAPLUS

CN Cyclopropaneacetic acid, 2-[2-(acetyloxy)-4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



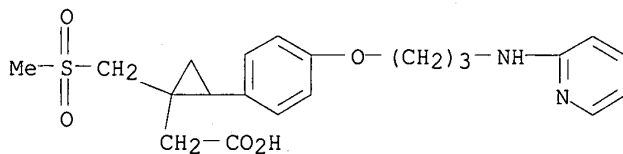
RN 381226-07-9 CAPLUS

CN Cyclopropaneacetic acid, 1-(methoxymethyl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 381226-08-0 CAPLUS

CN Cyclopropaneacetic acid, 1-[(methylsulfonyl)methyl]-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)

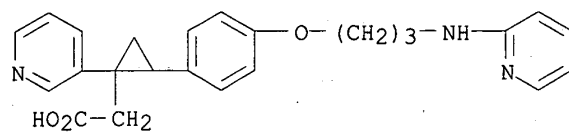


RN 381226-09-1 CAPLUS

CN Cyclopropaneacetic acid, 1-(3-pyridinyl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)

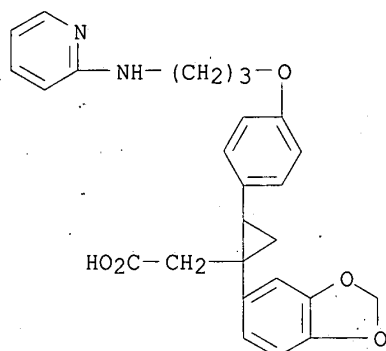
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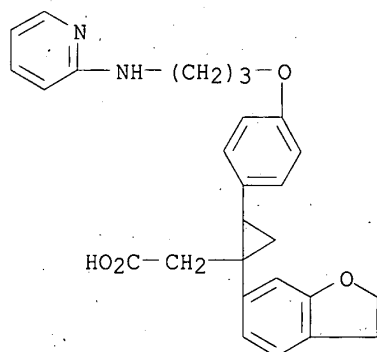
RN 381226-10-4 CAPLUS

CN Cyclopropaneacetic acid, 1-(1,3-benzodioxol-5-yl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



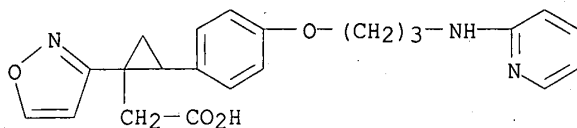
RN 381226-11-5 CAPLUS

CN Cyclopropaneacetic acid, 1-(2,3-dihydro-6-benzofuranyl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



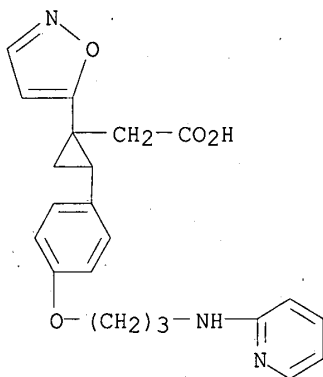
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CN Cyclopropaneacetic acid, 1-(3-isoxazolyl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



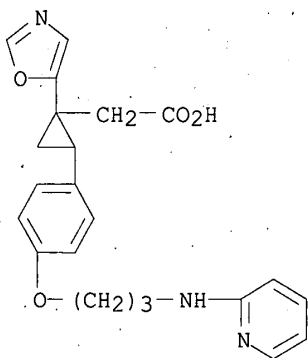
RN 381226-13-7 CAPLUS

CN Cyclopropaneacetic acid, 1-(5-isoxazolyl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



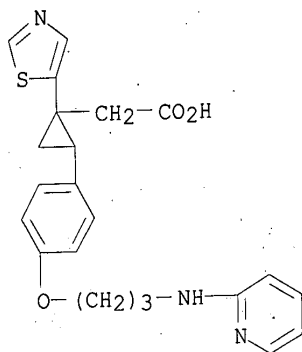
RN 381226-14-8 CAPLUS

CN Cyclopropaneacetic acid, 1-(5-oxazolyl)-2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



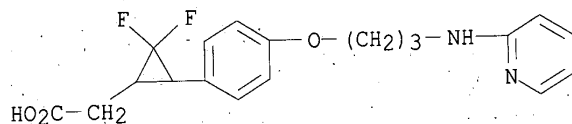
RN 381226-15-9 CAPLUS

CN Cyclopropaneacetic acid, 2-[4-[3-(2-pyridinylamino)propoxy]phenyl]-1-(5-thiazolyl)- (9CI) (CA INDEX NAME)



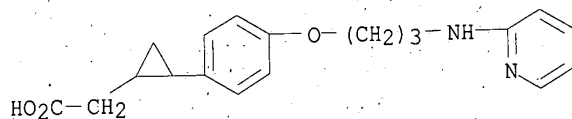
RN 381226-90-0 CAPLUS

CN Cyclopropaneacetic acid, 2,2-difluoro-3-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 381226-92-2 CAPLUS

CN Cyclopropaneacetic acid, 2-[4-[3-(2-pyridinylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



IT 381225-72-5P 381226-45-5P 381226-46-6P  
 381226-58-0P 381226-59-1P 381226-66-0P  
 381226-67-1P 381226-71-7P 381226-72-8P  
 381226-79-5P 381226-80-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. of cycloalkyl alkanolic acids as integrin receptor antagonists)

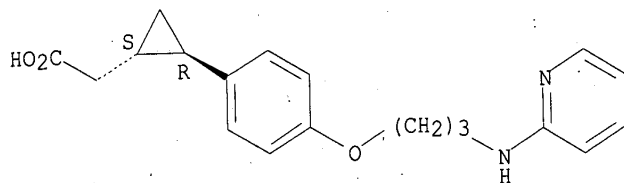
RN 381225-72-5 CAPLUS

CN Cyclopropaneacetic acid, 2-[4-[3-(2-pyridinylamino)propoxy]phenyl]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

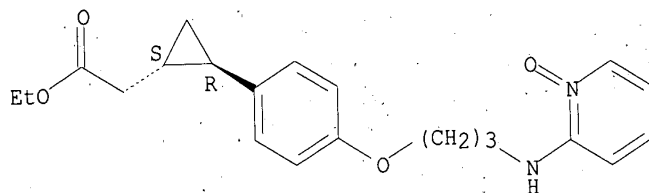
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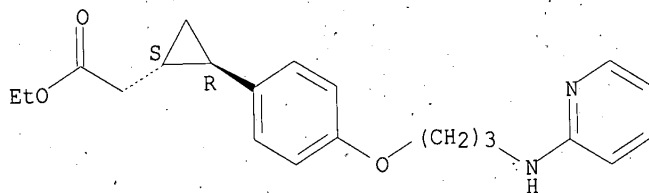
RN 381226-45-5 CAPLUS  
 CN Cyclopropaneacetic acid,  
 2-[4-[3-[(1-oxido-2-pyridinyl)amino]propoxy]phenyl  
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Relative stereochemistry.



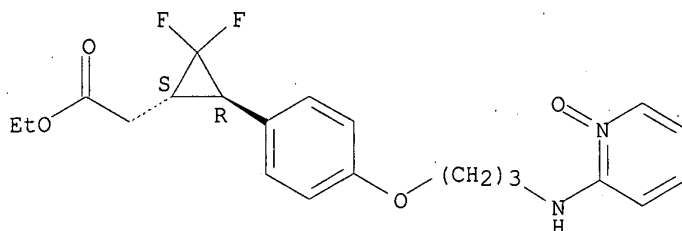
RN 381226-46-6 CAPLUS  
 CN Cyclopropaneacetic acid, 2-[4-[3-(2-pyridinylamino)propoxy]phenyl]-,  
 ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 381226-58-0 CAPLUS  
 CN Cyclopropaneacetic acid, 2,2-difluoro-3-[4-[3-[(1-oxido-2-  
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 INDEX NAME)

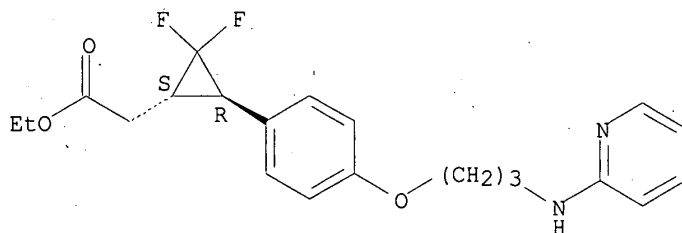
Relative stereochemistry.



RN 381226-59-1 CAPLUS

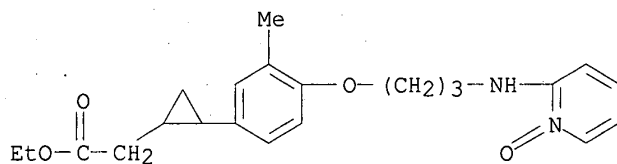
CN Cyclopropaneacetic acid, 2,2-difluoro-3-[4-[3-(2-pyridinylamino)propoxy]phenyl]-, ethyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



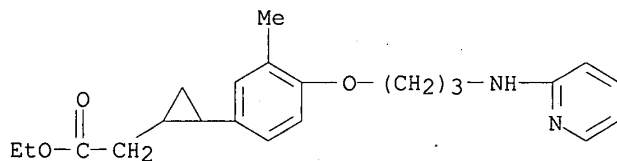
RN 381226-66-0 CAPLUS

CN Cyclopropaneacetic acid, 2-[3-methyl-4-[3-[(1-oxido-2-pyridinyl)amino]propoxy]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 381226-67-1 CAPLUS

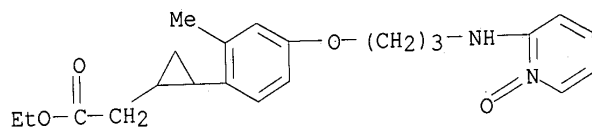
CN Cyclopropaneacetic acid, 2-[3-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



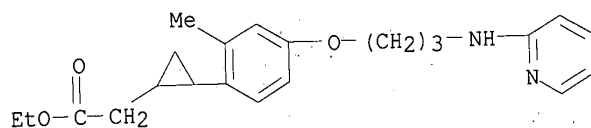
Habte

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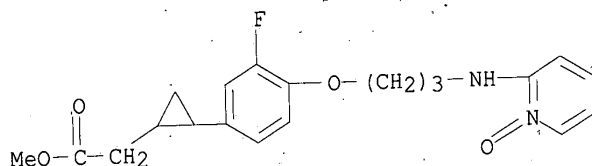
RN 381226-71-7 CAPLUS  
CN Cyclopropaneacetic acid, 2-[2-methyl-4-[3-[(1-oxido-2-pyridinyl)amino]propoxy]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



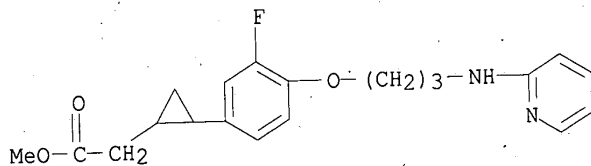
RN 381226-72-8 CAPLUS  
CN Cyclopropaneacetic acid,  
2-[2-methyl-4-[3-(2-pyridinylamino)propoxy]phenyl  
]-, ethyl ester (9CI) (CA INDEX NAME)



RN 381226-79-5 CAPLUS  
CN Cyclopropaneacetic acid, 2-[3-fluoro-4-[3-[(1-oxido-2-pyridinyl)amino]propoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 381226-80-8 CAPLUS  
CN Cyclopropaneacetic acid,  
2-[3-fluoro-4-[3-(2-pyridinylamino)propoxy]phenyl  
]-, methyl ester (9CI) (CA INDEX NAME)



=> log y

Habte

<09/11/2002



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Page 19

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.79

145.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.62

-0.62

STN INTERNATIONAL LOGOFF AT 15:56:17 ON 11 SEP 2002

Habte

<09/11/2002

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:03:08 ON 11 SEP 2002

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:03:16 ON 11 SEP 2002

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STRUCTURE FILE UPDATES: 10 SEP 2002 HIGHEST RN 449140-76-5

DICTIONARY FILE UPDATES: 10 SEP 2002 HIGHEST RN 449140-76-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 09882186.str

L1 STRUCTURE UPLOADED

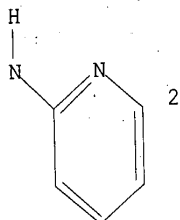
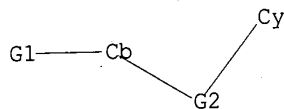
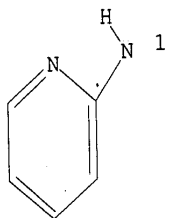
=> d l1

L1 HAS NO ANSWERS

L1 STR

Habte

<09/11/2002



G1 O,S,N,Ak,C

G2 O,SO2,C,N

G3 [01],[02]

Structure attributes must be viewed using STN Express query preparation.

=&gt; s l1

SAMPLE SEARCH INITIATED 13:04:00 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 3043 TO ITERATE

32.9% PROCESSED 1000 ITERATIONS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 57553 TO 64167  
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=&gt; s l1 sss full

FULL SEARCH INITIATED 13:04:10 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 62609 TO ITERATE

100.0% PROCESSED 62609 ITERATIONS  
 SEARCH TIME: 00.00.14

0 ANSWERS

L3 0 SEA SSS FUL L1

Habte

&lt;09/11/2002

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Page 4

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

141.42

141.63

STN INTERNATIONAL LOGOFF AT 13:05:34 ON 11 SEP 2002

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<09/11/2002

Narrow

09/882,186

Page 2

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FILE 'HOME' ENTERED AT 13:21:48 ON 11 SEP 2002

=> ile reg

ILE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:22:03 ON 11 SEP 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 10 SEP 2002 HIGHEST RN 449140-76-5

DICTIONARY FILE UPDATES: 10 SEP 2002 HIGHEST RN 449140-76-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 09882186a.str

L1 STRUCTURE UPLOADED

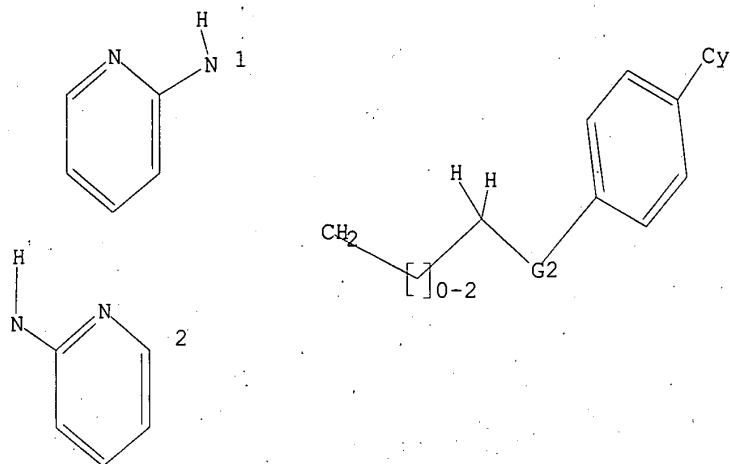
=> d l1

L1 HAS NO ANSWERS

L1 STR

Habte

<09/11/2002



G1 [@1],[@2]

G2 C,O,SO<sub>2</sub>,NH,S,N

Structure attributes must be viewed using STN Express query preparation.

=&gt; s 11

SAMPLE SEARCH INITIATED 13:22:32 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 945 TO ITERATE100.0% PROCESSED 945 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*PROJECTED ITERATIONS: 17056 TO 20744  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=&gt; s 11 sss full.

FULL SEARCH INITIATED 13:22:41 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 19101 TO ITERATE100.0% PROCESSED 19101 ITERATIONS  
SEARCH TIME: 00.00.08

1 ANSWERS

L3 1 SEA SSS FUL L1

=&gt; file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

140.66

TOTAL

SESSION

140.87

Habte

&lt;09/11/2002

FILE 'CAPLUS' ENTERED AT 13:23:00 ON 11 SEP 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 11 Sep 2002 VOL 137 ISS 11  
FILE LAST UPDATED: 10 Sep 2002 (20020910/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l3

L4 1 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:288765 CAPLUS

DOCUMENT NUMBER: 137:93513

TITLE: Cation-promoted hierarchical formation of  
supramolecular assemblies of self-organized helical  
molecular components

AUTHOR(S): Petitjean, Anne; Cuccia, Louis A.; Lehn, Jean-Marie;  
Nierengarten, Helene; Schmutz, Marc

CORPORATE SOURCE: Laboratoire de Chimie Supramoléculaire, ISIS-ULP,  
Strasbourg, 67000, Fr.

SOURCE: Angewandte Chemie, International Edition (2002),  
41(7), 1195-1198

CODEN: ACIEF5; ISSN: 1433-7851

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Alternating naphthyridine-pyrimidine strands self-organize into a helical  
conformation contg. a strongly polar cavity. The binding of metal and  
ammonium cations promotes supramol. self-assembly in a sort of  
effector-induced growth process to form polymol. stacks and fibers  
observable by electron microscopy. Such entities offer features of mol.  
ion channels.

IT 442128-59-8P

Habte

<09/11/2002

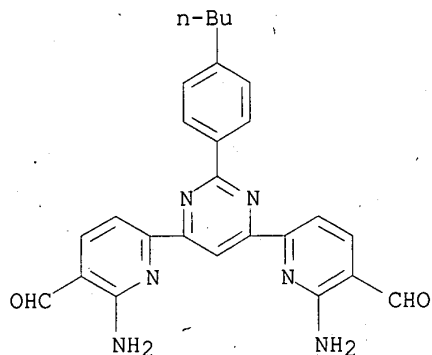
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(cyclocondensation; cation-promoted hierarchical formation of  
supramol.

assemblies of self-organized helical mol. components)

RN 442128-59-8 CAPLUS

CN 3-Pyridinecarboxaldehyde,

6,6'-[2-(4-butylphenyl)-4,6-pyrimidinediyl]bis[2-  
amino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR  
THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.79	145.66

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.62	-0.62

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 13:23:26 ON 11 SEP 2002

Habte

<09/11/2002



L Number	Hits	Search Text	DB	Time stamp
1	1283	546/312, 514/352	USPAT	2002/09/11 16:40
2	13	(546/312, 514/352) and integrin\$	USPAT	2002/09/11 16:40